

Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A projection display for reproducing a proofed image intended for printing on a substrate using a set of inks, the display comprising:

a converter to receive said proofed image in a print color format and to convert said proofed image from said print color format to a display color format by substantially matching colors of the display color format to colors of the proofed image;

a light source to generate and project light of a set of at least three colors having at least three different chromaticities, respectively, said chromaticities being selected to define a viewed color gamut which entirely covers a perceived color gamut of said set of inks when printed on said substrate; and

a controller to receive said proofed image in said display color format and to produce a light pattern corresponding to said proofed image by selectively controlling the path of the light of said at least three colors.

2. (Original) The display of claim 1 comprising a correction filter, the spectrum of the correction filter being based on the spectrum reflected from a type of said substrate.

3. (Previously Presented) The display of claim 1 comprising a correction filter, the spectrum of the correction filter being based on the spectrum of an intended light used to view the proofed image when printed on said substrate.

4. (Previously presented) The display of claim 1 wherein the light source includes at least a plurality of light emitting diodes.

5. (Previously Presented) The display of claim 1, wherein the light source includes at least:

a polychromatic source to generate polychromatic light; and

a color filtering mechanism to sequentially generate the light of said at least three colors by filtering said polychromatic light.

6. (Previously Presented) The display of claim 1, wherein said at least three colors comprise at least four colors.

7. (Previously Presented) The display of claim 1, wherein the light source produces light of three colors, the transmission spectra of which define said viewed color gamut.

8. (Original) The display of claim 1 comprising a spatial light modulator.

9. (Original) The display of claim 1 comprising a digital micro-mirror device.

10. (Currently Amended) A method for reproducing by projection a proofed image intended for printing on a substrate using a set of inks, the method comprising:

projecting light of at least three colors having at least three different chromaticities, respectively, said chromaticities being selected to define a viewed color gamut which entirely covers a perceived color gamut of said set of inks when printed on said substrate;

receiving said proofed image in a print color format;

converting said proofed image from said print color format to a display color format corresponding to said at least three colors by substantially matching colors of the display color format to colors of the proofed image; and

based on said converted proofed image in said display color format, selectively controlling the path of the light of said at least three colors to produce a light pattern corresponding to said proofed image.

11. (Cancelled)

12. (Original) The method of claim 10 comprising passing light through a correction filter, the spectrum of the correction filter being based on the spectrum reflected from a type of said substrate.

13. (Previously Presented) The method of claim 10 comprising passing light through a correction filter, the spectrum of the correction filter being based on the spectrum of an intended light source used to view said proofed image when printed on said substrate.

14. (Previously Presented) The method of claim 10, wherein producing light of said at least three colors comprises passing light through a color wheel.

15. (Previously Presented) The method of claim 10, wherein said at least three colors include a red color, a green color and a blue color, the transmission spectra of which define said viewed color gamut.

16. (Previously Presented) The method of claim 10 comprising spatially modulating the light of said at least three colors.

17. (Previously Presented) The device of claim 5, wherein said color filtering mechanism is adapted to sequentially place at least three color filters corresponding to said at least three colors, respectively, in the path of said polychromatic light.

18. (Previously Presented) The device of claim 1, wherein said controller controls the path of the light of said at least three colors based on image data representing the proofed image in terms of said at least three colors.

19. (Previously Presented) The device of claim 1, wherein said light source generates the light of said at least three colors independently of said proofed image.

20. (Previously Presented) The method of claim 10, wherein producing the light of said at least three colors comprises selectively producing the light of said at least three colors independently of said proofed image.

21. (Previously Presented) The device of claim 1, wherein said light source is to generate light of exactly three colors having three different chromaticities, respectively, said chromaticities being selected to define a viewed color gamut which entirely covers a perceived color gamut of said set of inks when printed on said substrate.

22. (Previously Presented) The method of claim 10, wherein producing light of at least three colors comprises producing light of exactly three colors having three different chromaticities, respectively, said chromaticities being selected to define a viewed color gamut which entirely covers a perceived color gamut of said set of inks when printed on said substrate.

23. (Previously presented) The system of claim 1, wherein said print color format is an analog format.

24. (Previously presented) The system of claim 23, wherein said display color format is a digital format, and wherein said converter is to convert said proofed image from said analog print color format to said digital display color format.

25. (Previously presented) The system of claim 1, wherein said converter is to determine a combination of light of said at least three different primary colors, thereby to accurately represent the proofed image using said at least three light source colors.

26. (Previously presented). The method of claim 10, wherein said print color format is an analog format.

27. (Previously presented) The method of claim 10, wherein said display color format is a digital format, and wherein converting said proofed image from said print color

format to a display color format comprises converting said proofed image from said analog print color format to said digital display color format.

28. (Previously presented) The method of claim 10, further comprising determining a combination of light of said at least three different primary colors that represents the proofed image using said at least three light source colors.